IN THE CLAIMS:

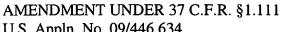
Claim 1 (currently amended) A plasmid DNA comprising in a 5' to 3' direction, a Gal4 responsive element, a promoter and a polynucleotide DNA encoding an amino acid sequence comprising a transmembrane region and an apoptosis-inducing domain a functional region of a an Fas antigen, in a region downstream of a responsive element of Gal4 protein.

Claim 2 (currently amended) The plasmid DNA according to claim 1, wherein the polynucleotide amino acid sequence comprising encodes a the transmembrane region and the an apoptosis-inducing domain of a Fas antigen functional region of the Fas antigen represented by amino acids 136 to 305 is an amino acid sequence of the 136th to 305th positions of mouse Fas antigen (SEQ ID NO:23) or amino acids 145 to 319 an amino acid sequence of the 145th to 319th positions of human Fas antigen (SEQ ID NO:22).

Claim 3 (currently amended) The plasmid DNA according to claim 1-or-2, wherein the polynucleotide encoding a transmembrane region and an apoptosis-inducing domain of a Fas antigen further encodes an amino acid sequence comprising a-a signal peptide region of athe Fas antigen in frame with is linked to the N-terminal of the amino acid sequence comprising the transmembrane region and the apoptosis-inducing domain functional region-of the Fas antigen, and wherein the transmembrane region and the apoptosis-inducing domain are represented by amino acids 136 to 305 of mouse Fas antigen (SEQ ID NO:23) or amino acids 145 to 319 of human Fas antigen (SEQ ID NO:22).

Claim 4 (currently amended) The plasmid DNA according to claim 3, wherein the polynucleotide encodes a Fas antigen signal peptide region represented by the amino acid sequence comprising the signal peptide of the Fas antigen is an amino acids acid sequence of the polynucleotide encodes a Fas antigen signal peptide of the Fas antigen is an amino acids acid sequence of the polynucleotide encodes a Fas antigen signal peptide of the Fas antigen is an amino acids acid sequence of the polynucleotide encodes a Fas antigen signal peptide region represented by the amino acid sequence comprising the signal peptide of the Fas antigen is an amino acids acid sequence of the polynucleotide encodes a Fas antigen signal peptide region represented by the amino acid sequence comprising the signal peptide of the Fas antigen is an amino acids acid sequence of the polynucleotide encodes are proposed to the polynucleotide encodes are proposed to the fas antigen is an amino acids acid sequence of the polynucleotide encodes are proposed to the fas antigen is an amino acids acid sequence of the polynucleotide encodes are proposed to the fas antigen is an amino acids acids acid sequence of the polynucleotide encodes are proposed to the fas antigen is an amino acids acids





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21st to 14th positions of mouse Fas antigen (SEQ ID NO:23) or an amino acidsacid sequence of the -16th to 23rd positions of human Fas antigen (SEQ ID NO:22).

Claims 5-19 (canceled).



Claim 20 (currently amended) A composition therapeutic agent for a cancer or an autoimmune disease, comprising the plasmid DNA of any one of claims 1 to 4 and a DNA molecule encoding an effector protein.

Claims 21-23 (canceled).